Write 3 expressions that equal $5\frac{2}{3}$

Adding Unlike Fractions

Essential Question: Describe two strategies you can use to make the denominator the same?

Adding & Subtracting Fractions

steps	examples
	$\frac{1}{2} + \frac{1}{4}$
1) Make the denominator the same *2 ways	$\frac{1}{2} \times \frac{2}{2} = \frac{2}{4}$
2) add or subtract the numerators	$\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$

Making the Denominators the Same

$\frac{1}{4} \times \frac{5}{12}$

Method 1: LCM

Method 2: Multiply

ex 1: $\frac{1}{2} + \frac{5}{8}$

ex 2: $\frac{3}{2} + \frac{4}{6}$

ex 3 $1\frac{3}{7} + \frac{3}{4}$

$$\frac{1}{2} + \frac{4}{6}$$

$$\frac{1}{4} + \frac{1}{2}$$

$$\begin{array}{r} 8 \\ +\ 5 \end{array} \qquad \begin{array}{r} 3 \\ 2 \end{array}$$

$$1\frac{2}{3} + \frac{4}{5}$$

Even problems: Partner A - step 1; Partner B - step 2
Odd problems: Partner B - step 1; Partner A - step 2

1) $\frac{1}{7} + \frac{2}{9}$

2) $\frac{4}{5} + \frac{2}{3}$

3) $\frac{1}{4} + \frac{3}{4}$

4) $\frac{2}{3} + \frac{5}{15}$

5) $\frac{1}{3} + \frac{2}{5}$

6) $\frac{2}{3} + \frac{5}{7}$

Try on your own

$\frac{1}{4} + \frac{2}{4}$

$\frac{1}{5} + \frac{2}{3}$

$\frac{2}{3} + \frac{9}{12}$

$\frac{6}{7} + \frac{1}{3}$

A cake recipe takes 1 cup of milk, 1/2 cup of butter, 3/4 cup of sugar, and 5/8 cup of flour. How many cups of ingredients do I need all together?

1) Write about the steps you would take to solve this problem. Why? Use quotes from the problem as evidence to support your reasoning.

2) Compare and contrast your steps with the steps of your partner.

3) Together, solve the problem. Does your answer make sense? Is it reasonable? Why?

With your partner, create a word problem in which you need to add fractions to solve.

In order to add fractions, the _____ must be the same. There are two ways to make the denominator the same: the _____ method and the _____ method.

In the LCD method, first list all the _____ of both numbers, then multiply both denomintaors to get the least common multiple.

In the multiply method, _____ both denominators by the other denominator.